

The 1882 Conjugacy Classes of the First Basic Renner Monoid of Type E_6 *

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Abstract

In this paper we find all conjugacy classes of the first basic Renner monoid of type E_6 . They are listed in the tables of the paper.

Keywords: Conjugacy, Renner monoid, Weyl group.

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1 Introduction

The Renner monoids associated with exceptional \mathcal{J} -irreducible algebraic monoids of type E_6, E_7, E_8 are closely related to Lie theory, semigroup theory, and other developments in mathematics and physics whose potential significance is unclear at this moment. The main result of this paper is the list of all conjugacy classes of the first basic Renner monoid of type E_6 (see Definition 2.1). This list is a result of an extensive computation on a Dell desktop computer OPTIPLEX 745 with a total physical memory 2,048.00 MB (about 1 week of computing time in May, 2012) using the method described in [12]. The code of the computation is written in GAP, a computer software system for algebraic computations [4].

Renner monoids R were introduced by Renner [18] in his study of the structure of reductive monoids in 1986. They play the same role for reductive monoids as the Weyl group does for groups in Lie theory. Significantly, R is a finite inverse monoid and its unit group is a Weyl group W . Rook monoids, symplectic rook monoids and orthogonal rook monoids are classical examples of Renner monoids [11, 15, 20].

Two elements $a, b \in R$ are conjugate if and only if there exists $w \in W$ such that $b = waw^{-1}$. It is well known that two elements in a rook monoid are conjugate if and only if their cycle-link types are the same [5, 6, 8, 13, 14]. There is a one-to-one correspondence between conjugacy classes in a symplectic rook monoid and symplectic partitions [1]. Reference [12] gives a systematic algorithm to determine the conjugacy of two elements of R in terms of the action of certain parabolic subgroups on the cosets of some parabolic subgroups in the Weyl group. For integrity of the paper, we will briefly

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describe this algorithm in the next section. We refer the reader who is interested in other conjugacies in semigroup theory to [5, 6, 8, 9, 10, 16, 17], and those who are interested in conjugacy classes in semisimple algebraic groups and finite groups of Lie type to [2, 3] and [7].

2 The algorithm

To describe the algorithm in [12] and to state our main results, we need some notation and basic facts. A linear algebraic monoid M over an algebraic closed field is an affine algebraic variety together with an associative morphism from $M \times M$ to M and an identity element $1 \in M$. An irreducible algebraic monoid is a linear algebraic monoid whose underlying affine variety is not the union of two proper closed nonempty subsets. The unit group of M , consisting of all invertible elements in M , is an algebraic group. An irreducible algebraic monoid is reductive if its unit group is a reductive group.

Let M be a reductive algebraic monoid, $T \subseteq G$ a maximal torus of the unit group G , $B \subseteq G$ a Borel subgroup with $T \subseteq B$, N the normalizer of T in G , \overline{N} the Zariski cloure of N in M . Then \overline{N} is a unit regular inverse monoid which normalizes T , and $R = \overline{N}/T$ is a monoid, called the Renner monoid of M . This monoid contains the Weyl group $W = N/T$ as its unit group. Besides,

$$M = \bigsqcup_{r \in R} BrB, \quad \text{disjoin union}$$

and if s is a simple reflection then $BsB \cdot BrB \subseteq BsrB \cup BrB$.

Denote by $E(\overline{T}) = \{e \in \overline{T} \mid e^2 = e\}$ the set of idempotents in \overline{T} . It carries a partial order defined by

$$e \leq f \Leftrightarrow fe = e = ef.$$

The set $\Lambda = \{e \in E(\overline{T}) \mid Be = eBe\}$ is called the cross section lattice of R . Indeed,

$$R = \bigsqcup_{e \in \Lambda} WeW, \quad \text{disjoint union.}$$

A reductive monoid M with zero 0 is called \mathcal{J} -irreducible if $\Lambda \setminus \{0\}$ has a unique minimal element. Let G_0 be a simple algebraic group and $\rho : G_0 \rightarrow GL(V)$ be an irreducible rational representation over an algebraically closed field K . Let $K^* = K \setminus \{0\}$. Then

$$M = \overline{K^* \rho(G_0)}$$

is a \mathcal{J} -irreducible monoid, called the \mathcal{J} -irreducible monoid associated with ρ . Let μ_i ($1 \leq i \leq l$) be the fundamental dominant weights of G_0 of type X , where $X = A_l, B_l, C_l, D_l, E_6, E_7, E_8, F_4$ and G_2 .

Definition 2.1 *The \mathcal{J} -irreducible monoid associated with μ_i is called the i -th basic monoid of type X ; its Renner monoid is referred to as the i -th basic Renner monoid of type X .*

Denote by Δ the set of simple roots of G relative to T , and let $S = \{s_\alpha \mid \alpha \in \Delta\}$ be the set of simple reflections that generate the Weyl group W . For each $e \in \Lambda$ let $W(e) = \{w \in W \mid we = ew\}$ and $W_*(e) = \{w \in W \mid we = ew = e\}$. Both $W(e)$ and $W_*(e)$ are parabolic subgroups of W , and $W_*(e)$ is a normal subgroup of $W(e)$. Let $W/W_*(e)$ be the set of left cosets of $W_*(e)$ in W , and let

$$D_*(e) = \{w \in W \mid l(wu) = l(w) + l(u) \text{ for all } u \in W_*(e)\}.$$

Then $D_*(e)$ is a set of left coset representatives of $W/W_*(e)$, and each $w \in D_*(e)$ has a minimal length in $wW_*(e)$. Define the group action of $W(e)$ on $W/W_*(e)$ by

$$w \cdot uW_*(e) = wuw^{-1}W_*(e),$$

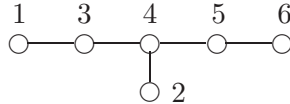
where $w \in W(e)$ and $u \in W$. This action is well defined since $W_*(e)$ is a normal subgroup of $W(e)$. We can now describe the algorithm for computing the conjugacy classes in a Renner monoid given in [12].

Theorem 2.2 a) *Each element in R is conjugate to an element in $\{we \mid w \in D_*(e)\} \subseteq We$ for some $e \in \Lambda$, and no element of We is conjugate to an element of Wf for $f \neq e$.*

b) *If $e \in \Lambda$, then two elements ue, ve in We are conjugate if and only if the two cosets $uW_*(e)$ and $vW_*(e)$ are in the same $W(e)$ -orbit in $W/W_*(e)$.*

3 Main results E_6

With the help of GAP, we obtain that the first basic Renner monoid R of type E_6 has 1882 conjugacy classes. The Dynkin diagram (c.f. [7]) in our calculation is as follows.



The cross section lattice $\Lambda = \{0, e_0, e_1, e_2, e_3, e_4, e_5, e_6, e_7, e_8 = 1\}$ where e_0 is the minimal nonzero idempotent, $e_1 = \{s1\}$, $e_2 = \{s1, s3\}$, $e_3 = \{s1, s3, s4\}$, $e_4 = \{s1, s2, s3, s4\}$, $e_5 = \{s1, s2, s3, s4, s5\}$, $e_6 = \{s1, s3, s4, s5\}$, $e_7 = \{s1, s3, s4, s5, s6\}$, $e_8 = \{s1, s2, s3, s4, s5, s6\} = 1$.

Description of tables. For simplicity we identify a conjugacy class with an individual representative element of that class, so we list only one representative for each class. Eleven tables are used to display necessary information. The first table is a summary of the classes associated with each idempotent; the rest display all the classes.

Table 1. This table displays the number of conjugacy classes associated with each $e \in \Lambda$, and the parabolic subgroups $W^*(e)$ and $W_*(e)$. The notation $\langle i, \dots, j \rangle$ in the table means the subgroup $\langle s_i, \dots, s_j \rangle$ of W generated by s_i, \dots, s_j where $1 \leq i, j \leq 6$.

e	$W^*(e)$	$W_*(e)$	Number of Classes
0			1
e_0		$\langle 2, 3, 4, 5, 6 \rangle$	3
e_1	$\langle 1 \rangle$	$\langle 2, 4, 5, 6 \rangle$	16
e_2	$\langle 1, 3 \rangle$	$\langle 2, 5, 6 \rangle$	113
e_3	$\langle 1, 3, 4 \rangle$	$\langle 6 \rangle$	690
e_4	$\langle 1, 2, 3, 4 \rangle$	$\langle 6 \rangle$	171
e_5	$\langle 1, 2, 3, 4, 5 \rangle$	\emptyset	85
e_6	$\langle 1, 3, 4, 5 \rangle$	\emptyset	628
e_7	$\langle 1, 3, 4, 5, 6 \rangle$	\emptyset	150
$e_8 = 1$	$\langle 1, 2, 3, 4, 5, 6 \rangle$	\emptyset	25

Table i . The i -th table displays the representatives of classes associated with idempotent e_{i-2} where $2 \leq i \leq 10$. For convenience, the conjugacy class 0 is listed in Table 2. Notation $[p, q, \dots, r]$ in Table i means

$$[p, q, \dots, r] = s_p s_q \dots s_r e_{i-2}, \text{ for } 1 \leq p, q, \dots, r \leq 6 \text{ and } i = 2, \dots, 10.$$

A special case is $[] = e_{i-2}$. For example, in Table 3,

$$[1, 3, 1, 4, 3] = s_1 s_3 s_1 s_4 s_3 e_1 \quad \text{and} \quad [] = e_1.$$

Table 2: Conjugacy Classes Associated with 0 and e_0

Conjugacy Classes
0
$[]$
$[1]$
$[1, 2, 3, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2]$

Table 3: Conjugacy Classes Associated with e_1

Conjugacy Classes
[]
[3]
[1]
[3, 1]
[1, 3, 1, 4, 3]
[2, 3, 1, 4, 2, 5, 4, 3, 6, 5]
[3, 4, 2, 5, 4, 3, 6, 5, 4, 2]
[2, 3, 1, 4, 2, 5, 4, 3, 1, 6, 5]
[3, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3]
[1, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3]
[1, 3, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3]
[1, 3, 1, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]

Table 4: Conjugacy Classes Associated with e_2

Conjugacy Classes	Conjugacy Classes
[]	[4, 3, 1, 5, 4, 2, 6, 5, 4]
[4]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 3]
[3]	[4, 2, 3, 1, 5, 4, 3, 6, 5, 4]
[3, 1]	[4, 2, 3, 4, 5, 4, 2, 3, 1, 4]
[1, 4]	[4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[4, 3]	[3, 4, 2, 3, 4, 5, 4, 2, 3, 4]
[4, 3, 1]	[4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6]
[4, 2, 5, 4]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4]
[4, 2, 3, 4]	[4, 2, 3, 4, 5, 4, 2, 3, 6, 5, 4]
[4, 3, 5, 4]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 4]	[4, 2, 3, 1, 5, 4, 3, 1, 6, 5, 4, 3]
[4, 3, 1, 5, 4]	[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 6]
[4, 2, 5, 4, 3]	[4, 2, 3, 4, 5, 4, 2, 3, 1, 6, 5, 4]
[4, 2, 3, 5, 4]	[4, 2, 3, 1, 4, 5, 4, 2, 3, 6, 5, 4]
[1, 4, 2, 5, 4]	[3, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4]
[4, 2, 5, 4, 3, 1]	[3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6]
[4, 2, 3, 1, 5, 4]	[4, 2, 3, 4, 5, 4, 2, 3, 6, 5, 4, 3]
[4, 2, 3, 5, 4, 3]	[4, 2, 3, 4, 5, 4, 2, 3, 1, 6, 5, 4, 3]
[4, 2, 3, 1, 5, 4, 3]	[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 6, 5, 4]
[4, 2, 3, 5, 4, 3, 1]	[1, 3, 4, 2, 3, 1, 5, 4, 2, 3, 6, 5, 4]
[4, 3, 1, 5, 4, 2, 3, 4]	[3, 1, 4, 2, 3, 5, 4, 2, 3, 6, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 3, 1]	[4, 2, 3, 1, 4, 5, 4, 2, 3, 6, 5, 4, 3]
[4, 2, 3, 1, 4, 3, 5, 4]	[1, 3, 1, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4]
[4, 2, 5, 4, 3, 6, 5, 4]	[1, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[4, 3, 5, 4, 2, 6, 5, 4]	[1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[4, 2, 3, 4, 5, 4, 2, 3, 4]	[4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[4, 2, 3, 1, 5, 4, 2, 3, 4]	[4, 2, 3, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 3]	[1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4]
[4, 3, 1, 5, 4, 3, 6, 5, 4]	[3, 1, 4, 2, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2]
[4, 2, 5, 4, 3, 1, 6, 5, 4]	[3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2]

Table 4: Conjugacy Classes Associated with e_2 (continued)

Conjugacy Classes
[1, 3, 4, 2, 3, 1, 5, 4, 2, 3, 6, 5, 4, 3]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 3]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[1, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[3, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 3, 1]
[3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 1, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4]
[1, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[1, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[1, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[3, 1, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[3, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4]
[1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4]
[3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]

Table 5: Conjugacy Classes Associated with e_3

Conjugacy Classes	Conjugacy Classes	Conjugacy Classes
[]	[4, 5, 4, 2, 3, 1]	[2, 5, 4, 2, 6, 5, 4, 3]
[5]	[4, 2, 5, 4, 2, 3]	[4, 5, 4, 2, 3, 1, 4, 5]
[4]	[2, 4, 2, 5, 4, 3]	[5, 4, 2, 3, 4, 6, 5, 4]
[2]	[2, 4, 5, 4, 3, 1]	[2, 4, 2, 3, 1, 5, 4, 2]
[4, 2]	[5, 4, 3, 1, 6, 5]	[1, 4, 2, 5, 4, 2, 6, 5]
[2, 5]	[2, 4, 2, 3, 1, 5]	[2, 4, 3, 5, 4, 2, 3, 4, 5]
[5, 4]	[1, 2, 5, 4, 6, 5]	[3, 1, 5, 4, 2, 3, 4, 6, 5]
[2, 3]	[5, 4, 2, 3, 6, 5]	[3, 1, 5, 4, 2, 3, 1, 4, 5]
[3, 1]	[1, 5, 4, 2, 6, 5]	[4, 3, 1, 5, 4, 2, 3, 4, 5]
[1, 4]	[2, 4, 5, 4, 2, 3]	[5, 4, 3, 1, 6, 5, 4, 2, 3]
[3, 5]	[2, 5, 4, 3, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 6, 5]
[5, 4, 2]	[2, 4, 3, 1, 5, 4, 2]	[2, 3, 1, 4, 3, 1, 5, 4, 2]
[4, 2, 5]	[4, 2, 5, 4, 2, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4]
[2, 4, 5]	[5, 4, 2, 3, 1, 4, 5]	[4, 2, 5, 4, 2, 3, 1, 6, 5]
[1, 4, 2]	[5, 4, 2, 3, 4, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 3]	[3, 1, 5, 4, 2, 3, 4]	[2, 4, 5, 4, 2, 3, 4, 6, 5]
[2, 3, 1]	[3, 1, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 4, 6, 5, 4, 2]
[3, 1, 5]	[2, 5, 4, 2, 3, 4, 5]	[2, 5, 4, 2, 6, 5, 4, 3, 1]
[4, 3, 1]	[5, 4, 2, 3, 1, 4, 3]	[4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 3]	[2, 4, 2, 5, 4, 3, 1]	[2, 5, 4, 3, 1, 6, 5, 4, 3]
[1, 5, 4]	[2, 4, 2, 5, 4, 2, 3]	[3, 1, 4, 2, 3, 4, 5, 4, 2]
[2, 3, 5]	[5, 4, 2, 3, 1, 6, 5]	[5, 4, 2, 3, 1, 6, 5, 4, 3]
[4, 5, 4, 2]	[2, 4, 5, 4, 2, 3, 1]	[2, 3, 1, 4, 3, 5, 4, 6, 5]
[5, 4, 6, 5]	[2, 5, 4, 3, 1, 6, 5]	[2, 5, 4, 3, 1, 6, 5, 4, 2]
[2, 4, 2, 5]	[5, 4, 3, 6, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 6, 5]
[4, 2, 3, 1]	[4, 2, 5, 4, 3, 6, 5]	[5, 4, 2, 3, 6, 5, 4, 2, 3]
[1, 5, 4, 2]	[2, 4, 3, 5, 4, 2, 3]	[2, 4, 2, 3, 5, 4, 3, 6, 5]
[4, 2, 3, 5]	[5, 4, 2, 6, 5, 4, 3]	[2, 4, 2, 3, 5, 4, 2, 6, 5]
[5, 4, 3, 1]	[2, 4, 3, 5, 4, 6, 5]	[4, 2, 5, 4, 2, 6, 5, 4, 3]
[2, 3, 1, 5]	[2, 5, 4, 2, 3, 6, 5]	[4, 2, 5, 4, 2, 3, 4, 6, 5]
[1, 4, 2, 5]	[4, 5, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 1, 4, 6, 5, 4]
[1, 2, 4, 5]	[1, 2, 5, 4, 2, 6, 5]	[4, 2, 5, 4, 3, 6, 5, 4, 2]
[5, 4, 2, 3]	[2, 4, 2, 3, 5, 4, 2]	[5, 4, 2, 3, 4, 6, 5, 4, 3]
[2, 4, 3, 5]	[1, 2, 4, 2, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 5, 4, 2]	[3, 1, 5, 4, 2, 3, 4, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 6, 5]	[3, 1, 5, 4, 2, 3, 1, 4]	[2, 5, 4, 3, 1, 6, 5, 4, 2, 3]
[2, 5, 4, 6, 5]	[3, 1, 4, 2, 3, 1, 4, 5]	[3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[4, 5, 4, 2, 3]	[2, 5, 4, 2, 3, 4, 6, 5]	[3, 1, 4, 3, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 3]	[5, 4, 2, 3, 1, 4, 6, 5]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3]
[1, 4, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 5]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 2, 3]	[4, 3, 1, 5, 4, 2, 3, 4, 6, 5]
[4, 2, 3, 1, 5]	[5, 4, 2, 6, 5, 4, 3, 1]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2]
[2, 4, 3, 1, 5]	[4, 2, 5, 4, 3, 1, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4]
[1, 2, 4, 2, 5]	[2, 4, 2, 5, 4, 2, 3, 1]	[2, 4, 3, 5, 4, 2, 3, 4, 6, 5]
[5, 4, 3, 6, 5]	[4, 2, 5, 4, 2, 3, 4, 5]	[4, 2, 5, 4, 2, 6, 5, 4, 3, 1]
[2, 5, 4, 2, 3]	[2, 4, 2, 3, 5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5]
[1, 5, 4, 6, 5]	[2, 5, 4, 2, 3, 1, 6, 5]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 3, 5]	[5, 4, 3, 1, 6, 5, 4, 3]	[2, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[5, 4, 2, 3, 4, 5]	[2, 3, 1, 4, 3, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[2, 5, 4, 2, 6, 5]	[5, 4, 3, 1, 6, 5, 4, 2]	[2, 5, 4, 2, 3, 1, 6, 5, 4, 3]
[1, 2, 4, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 6, 5]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2]
[2, 4, 3, 5, 4, 2]	[2, 5, 4, 3, 6, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[2, 4, 2, 5, 4, 2]	[2, 4, 3, 5, 4, 2, 6, 5]	[5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[2, 5, 4, 2, 3, 1]	[4, 2, 5, 4, 2, 3, 6, 5]	[4, 3, 1, 5, 4, 3, 6, 5, 4, 2]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes	Conjugacy Classes
[2, 4, 2, 3, 5, 4, 3, 1, 6, 5]	[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4]	[4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[4, 2, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2]
[2, 4, 3, 5, 4, 3, 6, 5, 4, 2]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 6, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[2, 4, 2, 3, 5, 4, 2, 3, 6, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[2, 4, 2, 3, 5, 4, 2, 3, 4, 5]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]
[2, 4, 2, 5, 4, 2, 3, 4, 6, 5]	[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 6, 5]	[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4]
[4, 2, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 2, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5]
[4, 5, 4, 2, 3, 4, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 3]	[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5]	[3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]	[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 3]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2]
[2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5]	[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 2, 3, 5, 4, 3, 1, 6, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 6, 5]
[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]	[2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5]
[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 3]	[3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5]	[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5]	[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 3]	[4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5, 4]
[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4]	[4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2]	[4, 2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[2, 4, 2, 3, 5, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 3, 1, 4, 2, 3, 5, 4, 2, 6, 5]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 6, 5]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[2, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]
[5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]	[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 3, 5, 4, 2, 3, 4, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 3, 1]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes	Conjugacy Classes
[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]	[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3]
[4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3, 1]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4]
[2, 4, 2, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2]	[4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]	[4, 2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1]
[2, 4, 2, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5]	[3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]	[2, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[2, 4, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5]
[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 3, 1]	[2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 3]	[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]	[2, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4]	[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]	[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]	[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1]	[3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5]
[2, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]	[4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]	[2, 3, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5]	[4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes	Conjugacy Classes
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3]	[2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]	[2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4]	[2, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 3, 1]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]	[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]	[3, 1, 4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4]
[2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[4, 2, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]	[4, 2, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]	[2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[4, 2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 6, 5]	[2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]	[2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2]
[4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes
[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 5]
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[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
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[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
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[2, 3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
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[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
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[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3, 1]
[1, 2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
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[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
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[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
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[3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
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[3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[1, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 3, 1, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]

Table 5: Conjugacy Classes Associated with e_3 (continued)

Conjugacy Classes
[3, 1, 4, 2, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[1, 2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 3, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[1, 2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[1, 2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]

Table 6: Conjugacy Classes Associated with e_4

Conjugacy Classes	Conjugacy Classes
[]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 5]
[5]	[2, 5, 4, 2, 3, 1, 6, 5, 4, 3]
[4]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4]
[4, 2]	[4, 3, 1, 5, 4, 2, 3, 4, 6, 5]
[2, 5]	[4, 2, 5, 4, 2, 6, 5, 4, 3, 1]
[5, 4]	[5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[3, 5]	[4, 2, 5, 4, 2, 3, 1, 4, 6, 5]
[2, 3]	[4, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[5, 4, 2]	[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[3, 1, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 3, 1]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5]
[1, 5, 4]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 3]
[4, 3, 1]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 3]
[5, 4, 3]	[5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 5]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[5, 4, 6, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5]
[4, 2, 3, 1]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[5, 4, 3, 1]	[2, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[1, 5, 4, 2]	[3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3]
[2, 3, 1, 5]	[2, 4, 5, 4, 2, 3, 4, 6, 5, 4, 3, 1]
[5, 4, 2, 6, 5]	[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 3]
[4, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4]
[5, 4, 2, 3, 1]	[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]
[5, 4, 3, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3]
[1, 5, 4, 6, 5]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 4, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5]
[4, 5, 4, 2, 3, 1]	[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3]	[5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 3, 1, 6, 5]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5]
[1, 5, 4, 2, 6, 5]	[3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[5, 4, 2, 3, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3]
[4, 5, 4, 2, 3, 4, 5]	[4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5]
[5, 4, 2, 3, 4, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[3, 1, 5, 4, 2, 3, 4]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 6, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 3, 1]
[4, 2, 5, 4, 3, 6, 5]	[2, 4, 2, 5, 4, 2, 3, 4, 6, 5, 4, 3, 1]
[5, 4, 2, 6, 5, 4, 3]	[3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[3, 1, 5, 4, 2, 3, 4, 5]	[4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[5, 4, 3, 1, 6, 5, 4, 3]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[5, 4, 2, 3, 1, 4, 6, 5]	[5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 5, 4, 2, 3, 4, 6, 5]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 6, 5, 4, 3, 1]	[5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 4, 6, 5, 4]	[4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 3, 1, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]
[4, 5, 4, 2, 3, 1, 4, 5]	[4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 5]	[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3]
[3, 1, 5, 4, 2, 3, 4, 6, 5]	[3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[5, 4, 2, 3, 1, 6, 5, 4, 3]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 6, 5]
[4, 3, 1, 5, 4, 2, 3, 4, 5]	[3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 3, 1, 6, 5, 4, 3]	[2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[5, 4, 2, 3, 1, 4, 6, 5, 4]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 6, 5]
[5, 4, 2, 3, 4, 6, 5, 4, 3]	[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 6, 5]	[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 6, 5, 4, 3]	[5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]

Table 6: Conjugacy Classes Associated with e_4 (continued)

Conjugacy Classes
[2, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3]
[4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 4, 5]
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[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
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[4, 2, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
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[4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[1, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]

Table 7: Conjugacy Classes Associated with e_5

Conjugacy Classes	Conjugacy Classes
[]	[4, 5, 4, 6, 5, 4, 2, 3]
[6]	[3, 1, 6, 5, 4, 2, 3, 4]
[5]	[4, 2, 5, 6, 5, 4, 2, 3]
[6, 5]	[2, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 5]	[5, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2]	[6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 5]	[3, 1, 5, 6, 5, 4, 2, 3, 4]
[4, 6]	[4, 5, 4, 6, 5, 4, 2, 3, 1]
[5, 4, 2]	[4, 2, 5, 4, 6, 5, 4, 2, 3]
[6, 5, 4]	[2, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 6]	[3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5]	[4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[2, 6, 5]	[5, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 3, 5]	[5, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 6, 5]	[4, 2, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 3, 1]	[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 6]	[3, 1, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[6, 5, 4, 2]	[5, 4, 2, 6, 5, 4, 2, 3, 4, 5, 6]
[1, 5, 4, 2]	[5, 4, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[3, 1, 6, 5]	[4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 3, 1]	[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[1, 6, 5, 4]	[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 1, 6]	[5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[6, 5, 4, 3]	[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[4, 3, 1, 6]	[5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[5, 4, 2, 3]	[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 3, 6, 5]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[2, 3, 1, 5]	[4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[4, 2, 3, 1, 6]	[2, 3, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[6, 5, 4, 3, 1]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[1, 6, 5, 4, 2]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 2, 3, 1]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[6, 5, 4, 2, 3]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 3, 1, 6, 5]	[4, 2, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[5, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[6, 5, 4, 2, 3, 1]	[2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 5, 4, 2, 3]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[4, 5, 6, 5, 4, 2, 3]	[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[3, 1, 5, 4, 2, 3, 4]	[3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[5, 6, 5, 4, 2, 3, 1]	[4, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[5, 4, 2, 6, 5, 4, 3]	[3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[6, 5, 4, 2, 3, 4, 5, 6]	[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 5, 6, 5, 4, 2, 3, 1]	

Table 8: Conjugacy Classes Associated with e_6

Conjugacy Classes	Conjugacy Classes	Conjugacy Classes
[]	[6, 5, 4, 2, 3]	[3, 1, 6, 5, 4, 2, 3, 4]
[6]	[2, 3, 1, 6, 5]	[3, 1, 5, 4, 2, 3, 4, 6]
[5]	[2, 5, 4, 2, 3]	[3, 1, 4, 2, 3, 4, 5, 6]
[2]	[1, 4, 2, 5, 6]	[2, 5, 6, 5, 4, 2, 3, 1]
[6, 5]	[4, 5, 6, 5, 4, 2]	[6, 5, 4, 2, 3, 1, 4, 3]
[2, 3]	[2, 4, 5, 4, 2, 6]	[4, 2, 5, 6, 5, 4, 2, 3]
[4, 2]	[2, 4, 3, 5, 4, 2]	[2, 4, 2, 5, 6, 5, 4, 3]
[2, 5]	[5, 6, 5, 4, 2, 3]	[5, 4, 2, 6, 5, 4, 3, 1]
[2, 6]	[4, 5, 4, 2, 3, 6]	[2, 4, 2, 5, 4, 3, 1, 6]
[5, 4]	[2, 4, 3, 5, 6, 5]	[2, 3, 1, 4, 3, 5, 4, 2]
[4, 6]	[2, 5, 4, 2, 3, 1]	[5, 4, 2, 6, 5, 4, 2, 3]
[3, 5]	[1, 5, 6, 5, 4, 2]	[2, 4, 2, 5, 4, 3, 6, 5]
[5, 4, 2]	[6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 5, 4, 2, 6]
[4, 2, 6]	[1, 4, 5, 4, 2, 6]	[2, 4, 2, 3, 1, 5, 4, 2]
[2, 6, 5]	[5, 4, 2, 3, 1, 6]	[2, 4, 2, 3, 6, 5, 4, 2]
[6, 5, 4]	[4, 2, 5, 4, 2, 3]	[2, 4, 2, 3, 5, 4, 2, 3]
[2, 3, 1]	[2, 4, 3, 1, 5, 6]	[2, 4, 5, 4, 2, 3, 1, 6]
[4, 2, 3]	[4, 2, 3, 1, 5, 6]	[2, 4, 3, 5, 4, 2, 3, 6]
[2, 3, 6]	[2, 5, 4, 2, 3, 6]	[2, 4, 3, 6, 5, 4, 2, 3]
[1, 4, 2]	[2, 6, 5, 4, 2, 3]	[1, 2, 4, 2, 5, 4, 6, 5]
[3, 1, 6]	[2, 4, 2, 3, 5, 6]	[4, 5, 4, 6, 5, 4, 2, 3]
[3, 1, 5]	[1, 2, 4, 2, 5, 6]	[1, 5, 4, 2, 6, 5, 4, 2]
[4, 3, 1]	[4, 5, 6, 5, 4, 2, 3]	[2, 4, 5, 4, 6, 5, 4, 3]
[1, 4, 6]	[2, 4, 5, 6, 5, 4, 2]	[2, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 6, 5]	[2, 4, 5, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 6, 5, 4, 2]
[2, 3, 5]	[2, 4, 3, 1, 5, 4, 2]	[6, 5, 4, 2, 3, 1, 4, 5, 6]
[6, 5, 4, 2]	[5, 4, 2, 6, 5, 4, 2]	[2, 4, 5, 6, 5, 4, 2, 3, 1]
[5, 4, 2, 6]	[2, 4, 2, 3, 5, 4, 2]	[2, 4, 2, 5, 4, 6, 5, 4, 2]
[4, 2, 5, 6]	[2, 4, 3, 5, 4, 2, 6]	[5, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 5, 6]	[1, 4, 5, 6, 5, 4, 2]	[2, 4, 2, 3, 5, 6, 5, 4, 2]
[4, 2, 3, 1]	[1, 2, 4, 5, 4, 2, 6]	[3, 1, 5, 6, 5, 4, 2, 3, 4]
[1, 4, 2, 6]	[2, 4, 3, 6, 5, 4, 2]	[3, 1, 4, 2, 3, 4, 5, 6, 5]
[1, 5, 4, 2]	[2, 4, 2, 5, 4, 6, 5]	[2, 4, 3, 1, 6, 5, 4, 2, 3]
[4, 2, 3, 6]	[3, 1, 5, 4, 2, 3, 4]	[2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 3, 1, 6]	[2, 6, 5, 4, 2, 3, 1]	[3, 1, 6, 5, 4, 2, 3, 1, 4]
[3, 1, 6, 5]	[5, 6, 5, 4, 2, 3, 1]	[3, 1, 5, 4, 2, 3, 1, 4, 6]
[5, 4, 2, 3]	[2, 5, 4, 2, 3, 1, 6]	[3, 1, 4, 2, 3, 1, 4, 5, 6]
[5, 4, 3, 1]	[4, 5, 4, 2, 3, 1, 6]	[5, 6, 5, 4, 2, 3, 1, 4, 3]
[6, 5, 4, 3]	[4, 2, 6, 5, 4, 2, 3]	[2, 4, 2, 5, 6, 5, 4, 3, 1]
[4, 3, 1, 6]	[5, 4, 2, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4]
[1, 6, 5, 4]	[2, 4, 2, 5, 4, 3, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 6]
[2, 3, 1, 5]	[2, 4, 3, 1, 5, 6, 5]	[2, 4, 2, 5, 6, 5, 4, 2, 3]
[2, 3, 6, 5]	[2, 4, 2, 3, 1, 5, 6]	[5, 4, 2, 6, 5, 4, 2, 3, 1]
[5, 6, 5, 4, 2]	[2, 4, 3, 5, 4, 2, 3]	[2, 4, 2, 3, 5, 4, 2, 3, 6]
[4, 5, 4, 2, 6]	[2, 5, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 6, 5, 4, 2, 3]
[2, 4, 2, 5, 6]	[2, 4, 5, 4, 2, 3, 6]	[2, 4, 2, 5, 4, 3, 1, 6, 5]
[4, 2, 3, 1, 6]	[6, 5, 4, 2, 3, 4, 5, 6]	[4, 5, 4, 6, 5, 4, 2, 3, 1]
[1, 6, 5, 4, 2]	[2, 4, 5, 6, 5, 4, 2, 3]	[2, 4, 2, 5, 4, 6, 5, 4, 3]
[5, 4, 2, 3, 1]	[2, 4, 3, 1, 6, 5, 4, 2]	[4, 2, 5, 4, 3, 6, 5, 4, 2]
[1, 5, 4, 2, 6]	[2, 4, 3, 1, 5, 4, 2, 6]	[2, 4, 2, 3, 1, 6, 5, 4, 2]
[5, 4, 2, 3, 6]	[4, 5, 6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 1, 5, 4, 2, 6]
[4, 2, 3, 5, 6]	[2, 4, 5, 6, 5, 4, 3, 1]	[2, 4, 5, 4, 6, 5, 4, 3, 1]
[6, 5, 4, 3, 1]	[1, 2, 4, 5, 6, 5, 4, 2]	[2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 5, 6]	[2, 4, 3, 5, 6, 5, 4, 2]	[2, 4, 5, 4, 6, 5, 4, 2, 3]
[1, 2, 4, 5, 6]	[2, 4, 2, 5, 6, 5, 4, 2]	[2, 4, 5, 4, 3, 6, 5, 4, 2]

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes	Conjugacy Classes
[2, 4, 3, 5, 6, 5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 6, 5, 4, 2, 3]
[1, 2, 4, 2, 5, 6, 5, 4, 2]	[5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2]
[4, 2, 5, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 6]
[6, 5, 4, 2, 3, 1, 4, 3, 5, 6]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4]
[3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 6]
[2, 4, 2, 3, 5, 6, 5, 4, 2, 3]	[2, 4, 2, 5, 4, 3, 6, 5, 4, 2, 3]
[3, 1, 5, 6, 5, 4, 2, 3, 1, 4]	[4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[3, 1, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 4, 2, 5, 4, 6, 5, 4, 2, 3, 1]
[2, 4, 2, 3, 1, 5, 6, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 6, 5, 4, 3]
[4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3]	[5, 4, 2, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6]	[2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[2, 5, 6, 5, 4, 2, 3, 4, 5, 6]	[5, 4, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 2, 5, 4, 3, 6, 5, 4, 2]	[3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[5, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 6]
[2, 3, 1, 5, 4, 3, 6, 5, 4, 2]	[2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 6]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6]	[4, 2, 5, 4, 2, 3, 6, 5, 4, 2, 3]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[5, 4, 6, 5, 4, 2, 3, 1, 4, 3]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3]
[2, 4, 2, 5, 4, 6, 5, 4, 2, 3]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3]
[4, 2, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 5, 4, 6, 5, 4, 3, 1]	[3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 6, 5, 4, 2]	[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[1, 2, 4, 2, 5, 4, 6, 5, 4, 2]	[4, 2, 3, 1, 4, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 5, 4, 6, 5, 4, 2, 3, 1]	[2, 3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 6]	[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 5, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3]
[2, 3, 1, 4, 3, 5, 6, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 3, 1, 6, 5, 4, 2]	[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]	[5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 4, 3, 1, 5, 4, 6, 5, 4, 2]
[3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[3, 1, 5, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 6]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]	[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6]	[2, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 4, 2, 3, 1, 4, 6, 5, 4, 2]	[5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1]	[4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3]	[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes	Conjugacy Classes
[3, 1, 4, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2]	[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 5, 4, 2, 3, 6, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5]	[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 2, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]	[2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]	[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 1, 4, 5, 4, 3, 6, 5, 4, 2, 3]
[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1]	[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]	[3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[3, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]
[5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5, 6]
[2, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3]	[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 4, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3]	[2, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	[4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]	[3, 1, 4, 2, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6]	[4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 5, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[3, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2]	[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3]
[4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 4, 5, 4, 3, 6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 3]	[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]	[2, 4, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3]
[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[3, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]	[3, 1, 4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 5, 4, 2, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 2, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 4, 5]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5]	[4, 2, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[2, 3, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes	Conjugacy Classes
[2, 4, 2, 3, 1, 4, 5, 4, 3, 6, 5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1]
[3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4]	[2, 3, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 4, 5, 6]	[2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3]	[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 4, 5]	[2, 4, 2, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4]
[4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[4, 2, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2]	[2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]	[4, 2, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 3, 1, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]	[3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1]	[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 5]
[2, 3, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1]
[5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[4, 2, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 2, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 3, 1, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]	[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[3, 1, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[4, 2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 5]	[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[4, 2, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[4, 2, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]	[4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5, 6]	[5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]	[2, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]	[3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]	[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]	[4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 4]	[2, 4, 2, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4]	[2, 4, 2, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 4, 2, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 1, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5, 6]	[2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	[2, 4, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 5, 6]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]	[3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes
[2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1]
[2, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
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[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[3, 1, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1]
[2, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
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[2, 4, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1]
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[2, 4, 3, 1, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
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[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 2, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[2, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes
[2, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 2, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 4, 2, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[2, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[2, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[2, 4, 2, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 3, 1]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 3, 1, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 3, 1, 4, 3, 1, 5, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6]
[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 3, 1, 4, 3, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[1, 2, 3, 1, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]

Table 8: Conjugacy Classes Associated with e_6 (continued)

Conjugacy Classes
[2, 3, 1, 4, 3, 5, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 4, 3, 1, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 3, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3, 1]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[2, 3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 3]
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 6, 5]
[2, 3, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[1, 2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[1, 2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]

Table 9: Conjugacy Classes Associated with e_7

Conjugacy Classes	Conjugacy Classes
[]	[5, 4, 2, 6, 5, 4, 3, 1]
[6]	[2, 4, 2, 3, 6, 5, 4, 2]
[2]	[2, 4, 3, 6, 5, 4, 2, 3]
[6, 5]	[2, 3, 1, 4, 3, 6, 5, 4, 2]
[4, 2]	[2, 4, 3, 1, 6, 5, 4, 2, 3]
[2, 3]	[3, 1, 6, 5, 4, 2, 3, 1, 4]
[2, 6]	[2, 4, 3, 1, 5, 4, 2, 3, 4]
[4, 6]	[2, 4, 2, 3, 1, 6, 5, 4, 2]
[4, 2, 3]	[4, 2, 5, 4, 3, 6, 5, 4, 2]
[5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5]
[4, 2, 6]	[4, 2, 5, 4, 3, 6, 5, 4, 2, 3]
[2, 6, 5]	[4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[6, 5, 4]	[2, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[2, 3, 1]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 4]
[1, 4, 2]	[3, 1, 4, 2, 3, 4, 6, 5, 4, 2]
[2, 3, 6]	[6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 6]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[1, 4, 6]	[3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[6, 5, 4, 2]	[4, 2, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[4, 2, 3, 1]	[4, 2, 5, 4, 2, 3, 6, 5, 4, 2, 3]
[5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5]
[1, 4, 2, 6]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2]
[1, 5, 4, 2]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4]
[4, 2, 3, 6]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[2, 3, 1, 6]	[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[3, 1, 6, 5]	[4, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[5, 4, 3, 1]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3]
[4, 3, 1, 6]	[2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 3, 6, 5]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3]
[4, 2, 3, 1, 6]	[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[5, 4, 2, 3, 1]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[1, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 4, 5]
[6, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2]
[6, 5, 4, 3, 1]	[5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 6, 5]	[4, 2, 3, 1, 4, 3, 6, 5, 4, 2, 3, 4, 5]
[2, 5, 4, 2, 3]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3]
[2, 4, 3, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[2, 5, 4, 2, 3, 1]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2]
[6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]
[4, 2, 5, 4, 2, 3]	[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]
[2, 6, 5, 4, 2, 3]	[4, 2, 3, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3]
[2, 4, 3, 1, 5, 4, 2]	[3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 5, 4, 2]	[4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 6, 5, 4, 2]	[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 1, 5, 4, 2, 3, 4]	[3, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 6, 5, 4, 2, 3, 1]	[2, 4, 2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1]
[5, 4, 2, 6, 5, 4, 3]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]
[2, 4, 3, 5, 4, 2, 3]	[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]
[2, 4, 3, 1, 6, 5, 4, 2]	[2, 3, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4, 5]
[4, 2, 2, 3, 5, 4, 2, 3]	[2, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 6, 5, 4, 2, 3, 4]	[2, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 5, 4, 2]	[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4]
[2, 4, 2, 3, 1, 5, 4, 2]	[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2]

Table 9: Conjugacy Classes Associated with e_7 (continued)

Conjugacy Classes
[2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 4]
[3, 1, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 4, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 1, 4, 3, 6, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 3, 1, 5, 4, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 6, 5, 4, 2, 3, 1, 4, 3]
[2, 4, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4, 2, 3, 1]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[3, 1, 5, 4, 2, 3, 1, 4, 3, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5]
[2, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 5, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 4, 5, 6]
[3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 6]
[3, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 5, 4, 2, 3, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5, 4]
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[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[1, 2, 4, 2, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2]
[2, 3, 1, 4, 3, 1, 5, 4, 2, 3, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6, 5]
[2, 4, 2, 3, 1, 4, 3, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]

Table 10: Conjugacy Classes Associated with e_8

Conjugacy Classes C	Length	$ C \cap D_*(e) $
[]	0	1
[6]	1	36
[6, 5]	2	240
[4, 6]	2	1620
[5, 4, 2]	3	270
[4, 2, 6]	3	5184
[2, 3, 6]	3	1440
[6, 5, 4, 2]	4	4320
[4, 3, 1, 6]	4	3240
[3, 1, 6, 5]	4	480
[5, 4, 2, 3]	4	540
[2, 3, 1, 6]	4	1440
[6, 5, 4, 3, 1]	5	45
[4, 2, 3, 1, 6]	5	5184
[2, 3, 1, 6, 5]	5	5760
[5, 4, 2, 3, 1]	5	4320
[6, 5, 4, 2, 3, 1]	6	720
[4, 2, 5, 4, 2, 3]	6	1440
[3, 1, 5, 4, 2, 3, 4]	7	4320
[3, 1, 6, 5, 4, 2, 3, 4]	8	1440
[2, 3, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]	12	6480
[4, 2, 3, 1, 6, 5, 4, 2, 3, 1, 4, 5]	12	2160
[2, 3, 1, 4, 2, 3, 4, 5, 4, 2, 3, 4, 5]	13	540
[2, 3, 1, 4, 2, 3, 4, 6, 5, 4, 2, 3, 4, 5]	14	540
[3, 1, 4, 3, 1, 5, 4, 2, 3, 1, 4, 5, 6, 5, 4, 2, 3, 1, 4, 3, 5, 4, 2, 6]	24	80

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